Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2547	(combin$5 near3 packet)	USPAT	OR	ON	2005/09/09 12:54
L2	2691	(combin$5 near3 (packet or (data adj segment)))	USPAT	OR	ON	2005/09/09 14:15
L3	291	(combin$5 near3 (packet or (data adj segment))) and aggregat$5	USPAT	OR	ON	2005/09/09 13:14
L4	20	(combin$5 near3 (packet or (data adj segment))) and aggregat$5.ab.	USPAT	OR	ON	2005/09/09 12:56
L5	0	(combin$5 near3 (packet or (data adj segment))) and aggregat$5.ab. and (ack or acknowledg$5)	USPAT	OR	ON	2005/09/09 12:57
L6	94	(combin$5 near3 (packet or (data adj segment))) and aggregat$5 and (ack or acknowledg$5)	USPAT	OR	ON	2005/09/09 13:01
L7	8	((combin$5 near3 (packet or (data adj segment))) same aggregat$5) and (ack or acknowledg$5)	USPAT	OR	ON	2005/09/09 12:59
L8	15	((combin$5 near3 (packet or (data adj segment))) same aggregat$5) and (ack or acknowledg$5)	US-PGPUB	OR	ON	2005/09/09 12:59
L9	74	(combin$5 near3 (packet or (data adj segment))) same (ack or acknowledg$5)	USPAT	OR	ON	2005/09/09 13:01
L10	83	((aggregat$5 or combin$5) near3 (packet or (data adj segment))) same (ack or acknowledg$5)	USPAT	OR	ON	2005/09/09 13:02
L11	2	(((aggregat$5 or combin$5) near3 (packet or (data adj segment))) same (ack or acknowledg$5)).ab.	USPAT	OR	ON	2005/09/09 13:03
L12	8	(((aggregat$5 or combin$5) near3 (packet or (data adj segment))) same (ack or acknowledg$5)).ab.	US-PGPUB	OR	ON	2005/09/09 13:03
L13	155	(point-to-point or (point adj to adj point)) same aggregat$5	USPAT	OR	ON	2005/09/09 13:04
L14	50	(point-to-point or (point adj to adj point)) with aggregat$5	USPAT	OR	ON	2005/09/09 13:04
L15	43	(point-to-point or (point adj to adj point)) with ((aggregat$5 or combin$5) near3 (packet or data))	USPAT	OR	ON	2005/09/09 13:07
L17	4	(aggregat$5 near3 tunnel) with (data or packet)	USPAT	OR	ON	2005/09/09 13:09
L18	14	("5278834" \| "5293615" \| "5519859" \| "5627829" \| "5657460" \| "5774660" \| "5842018" \| "5848406" \| "5856974" \| "5897649" \| "5951694" \| "5991302" \| "6003089" \| "6026080").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/09 13:10
L19	8	("6519254").URPN.	USPAT	OR	ON	2005/09/09 13:13
L20	311	(combin$5 near3 (packet or (data adj segment))) and reassemb$5	USPAT	OR	ON	2005/09/09 13:14
L22	38	(combin$5 near3 (packet or (data adj segment))) same reassemb$5	USPAT	OR	ON	2005/09/09 14:05

L23	30	(combin$5 near3 (packet or (data adj segment))) and reassemb$5.ab.	USPAT	OR	ON	2005/09/09 13:54
L24	9	("4493021" \| "5113392" \| "5577041" \| "5600649" \| "5809024" \| "5815503" \| "6275502" \| "6643298" \| "6667978").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/09 13:55
L25	5	("5619497" \| "5629927" \| "5926475" \| "6246684" \| "6665794").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/09 13:57
L26	25	("5396490").URPN.	USPAT	OR	ON	2005/09/09 14:00
L27	6	("5396490" \| "5781549" \| "6216171" \| "6263444" \| "6438123" \| "6515990").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/09 14:02
L28	0	("6779050").URPN.	USPAT	OR	ON	2005/09/09 14:04
L29	834	((fragment$5 or segment$4) near3 (packet or data)) same reassemb$5	USPAT	OR	ON	2005/09/09 14:05
L30	522	((fragment$5 or segment$4) near3 (packet or data)) with reassemb$5	USPAT	OR	ON	2005/09/09 14:05
L31	1604	((fragment$5 or segment$4) near3 (packet or data)) with (reassemb$5 or combin$5 or aggragat$5)	USPAT	OR	ON	2005/09/09 14:49
L32	81	(((fragment$5 or segment$4) near3 (packet or data)) with (reassemb$5 or combin$5 or aggragat$5)).ab.	USPAT	OR	ON	2005/09/09 14:07
L33	6	(((fragment$5 or segment$4) near3 (packet or data)) with (reassemb$5 or combin$5 or aggragat$5)).ti.	USPAT	OR	ON	2005/09/09 14:07
L34	335	((fragment$5 or segment$4) near2 (packet or data)) near5 reassemb$5	USPAT	OR	ON	2005/09/09 14:09
L35	17	(((fragment$5 or segment$4) near2 (packet or data)) near5 reassemb$5).ab.	USPAT	OR	ON	2005/09/09 14:09
L36	19	("5095480" \| "5293379" \| "5307413" \| "5351237" \| "5430727" \| "5521940" \| "5535199" \| "5583859" \| "5627829" \| "5657452" \| "5757452" \| "5826032" \| "5841764" \| "5850526" \| "6041054" \| "6243667" \| "6310892" \| "6314095" \| "6385199").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/09 14:09
L37	96	(combin$5 near3 (packet or data)) with router	USPAT	OR	ON	2005/09/09 14:16
L38	3	((combin$5 near3 (packet or data)) with router) and (ack or acknowledgement)	USPAT	OR	ON	2005/09/09 14:16
L39	15	("5826023" \| "6108345" \| "6108350" \| "6212561" \| "6421714" \| "6456845" \| "6466964" \| "6469998" \| "6519254" \| "6523068" \| "6578084" \| "6608832" \| "6636502" \| "6701358" \| "6707809").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/09 14:42
L40	182	(((fragment$5 or segment$4) near3 (packet or data)) with (reassemb$5 or combin$5 or aggragat$5)) and (ack or acknowledgement)	USPAT	OR	ON	2005/09/09 14:49
L41	10	(((fragment$5 or segment$4) near3 (packet or data)) with (reassemb$5 or combin$5 or aggragat$5)) same (ack or acknowledgement)	USPAT	OR	ON	2005/09/09 14:57

L42	1	("5396490").PN.	USPAT	OR	OFF	2005/09/09 14:57
L43	44	("5440545").URPN.	USPAT	OR	ON	2005/09/09 15:45
L44	1	("6609157").PN.	USPAT	OR	OFF	2005/09/09 15:46
L45	31	("4712243" \| "4734784" \| "4996704" \| "5345500" \| "5548532" \| "5550593" \| "5561805" \| "5579316" \| "5608726" \| "5636220" \| "5646982" \| "5701302" \| "5708960" \| "5754768" \| "5774467" \| "5784572" \| "5850526" \| "5946633" \| "5949418" \| "5966385" \| "5973162" \| "6003089" \| "6032197" \| "6052735" \| "6101608" \| "6108718" \| "6134245" \| "6157954" \| "6178174" \| "6178442" \| "6181706").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/09 15:49
L48	6	("4704606" \| "4771391" \| "5570362" \| "5680401" \| "5802287" \| "5870394").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/09 15:54
L49	10	("6003089").URPN.	USPAT	OR	ON	2005/09/09 15:55

Fri, 9 Sep 2005, 4:27:27 PM EST

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Search Query Display

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#1	(((aggregat* or combin*) <sentence> (data or packet)) <in>metadata)
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#3	(((aggregat* or combin*) <sentence> (data or packet)) <in>metadata) and router
#4	(((((aggregat* or combin*) <sentence> (data or packet)) and (ack or acknowledg*))<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2001)
#5	(((((aggregat* or combin*) <sentence> (data or packet)) and (ack or acknowledg*))<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2001)
#6	(programmable aggregation mechanism<in>de)
#7	(gathercast<in>de)
#8	((((transformer <near/1> tunnel))<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2001)
#9	((((aggregation <near/1> mechanism))<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2001)
#10	(aggregated data streams<in>de)
#11	(aggregated multicast<in>de)
#12	(((((aggregat* or combin*) <near/2> (data or packet)) <paragraph> router)<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2001)

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Relevance scale

1 Routing without flow control
Costas Busch, Maurice Herlihy, Roger Wattenhofer
July 2001 **Proceedings of the thirteenth annual ACM symposium on Parallel algorithms and architectures**
Full text available: pdf(300.82 KB) Additional Information: full citation, abstract, references, index terms

We present the first dynamic hot-potato routing algorithm that does not require any form of explicit flow control: a node may inject a message into the network ($n \times n$ mesh) whenever a link is free. In the worst case, a node may have to wait an expected &Ogr;(n) time before it has a free link. If destinations are chosen uniformly at random, this algorithm guarantees delivery in an expected &Ogr;(n) time steps. Both measures are optimal up to a co ...

2 The effects of wide-area conditions on WWW server performance
Erich M. Nahum, Marcel-Catalin Rosu, Srinivasan Seshan, Jussara Almeida
June 2001 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2001 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 29 Issue 1
Full text available: pdf(1.26 MB) Additional Information: full citation, abstract, references, citings

WWW workload generators are used to evaluate web server performance, and thus have a large impact on what performance optimizations are applied to servers. However, current benchmarks ignore a crucial component: how these servers perform in the environment in which they are intended to be used, namely the wide-area Internet.This paper shows how WAN conditions can affect WWW server performance. We examine these effects using an experimental test-bed which emulates WAN characteristics in a live se ...

3 Improving network service quality with explicit TCP window control
James Aweya, Michel Ouellette, Delfin Y. Montuno, Zhonghui Yao
May 2001 **International Journal of Network Management**, Volume 11 Issue 3
Full text available: pdf(430.01 KB) Additional Information: full citation, abstract, references, index terms

We describe in this paper a new TCP rate control scheme based on a simple recursive algorithm. The idea behind the algorithm is to match the offered network load to the available resources by modifying at an intermediate network element, the receiver's advertised window in TCP acknowledgments returning to the source. We show through simulations that the scheme can efficiently control TCP traffic to limit queue buildups and buffer requirements at the network nodes, resulting in signific ...

4 Modeling and verifying a price model for congestion control in computer networks using promela/spin
Clement Yuen, Wei Tjioe
May 2001 **Proceedings of the 8th international SPIN workshop on Model checking of software**
Full text available: pdf(168.29 KB) Additional Information: full citation, abstract, references

Congestion control is an important research area in computer networks. Using PROMELA/ASPIN, we verified that priority pricing schemes can be used to effectively control congestion. Under the simulation/verification framework provided by SPIN, we verified the propositions that the enforcement of priority pricing on a network link (i) results in an equilibrium state in packet allocation, and (ii) effectively controls congestion level when pricing is being dynamically adjusted. Furthermore, we h ...

5 Papers: TCP/IP traffic dynamics and network performance: a lesson in workload modeling, flow control, and trace-driven simulations

Youngmi Joo, Vinay Ribeiro, Anja Feldmann, Anna C. Gilbert, Walter Willinger

April 2001 **ACM SIGCOMM Computer Communication Review**, Volume 31 Issue 2

Full text available: pdf(1.42 MB) Additional Information: full citation, abstract, references, citings

The main objective of this paper is to demonstrate in the context of a simple TCP/IP-based network that depending on the underlying assumptions about the inherent nature of the dynamics of network traffic, very different conclusions can be derived for a number of well-studied and apparently well-understood problems in the area of performance evaluation. For example, a traffic workload model can either completely ignore the empirically observed high variability at the TCP connection level (i.e., ...

6 Achieving per-flow fair rate allocation in Diffserv

Na Li, Marissa Borrego, San-Qi Li

April 2001 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 11 Issue 2

Full text available: pdf(189.40 KB) Additional Information: full citation, abstract, references, index terms

This article addresses the fundamental issue of providing per-flow fairness. In particular, it focuses on fairness within the Diffserv framework. We propose the Fair Allocation Derivative Estimation (FADE) algorithm for estimating flow fair share in the absence of per-flow information. FADE calculates fair share feedback using a modified quasi-Newton method. This efficient method for estimating fair share provides a more precise model than other existing fairness estimation approaches. As s ...

Keywords: differentiated services, fairness, feedback control

7 Papers: Voice over IP performance monitoring

R. G. Cole, J. H. Rosenbluth

April 2001 **ACM SIGCOMM Computer Communication Review**, Volume 31 Issue 2

Full text available: pdf(1.35 MB) Additional Information: full citation, abstract, references, citings

We describe a method for monitoring Voice over IP (VoIP) applications based upon a reduction of the ITU-T's E-Model to transport level, measurable quantities. In the process, 1) we identify the relevant transport level quantities, 2) we discuss the tradeoffs between placing the monitors within the VoIP gateways versus placement of the monitors within the transport path, and 3) we identify several areas where further work and consensus within the industry are required. We discover that the releva ...

8 Design methodology for PicoRadio networks

J. da Silva, J. Shamberger, M. Ammer, C. Guo, S. Li, R. Shah, T. Tuan, M. Sheets, J. Rabaey, B. Nikolic, A. Sangiovanni-Vincentelli, P. Wright

March 2001 **Proceedings of the conference on Design, automation and test in Europe**

Full text available: pdf(328.60 KB) Additional Information: full citation, references, index terms

9 Paranoid Penguin: Designing and Using DMZ Networks to Protect Internet Servers

Mick Bauer

March 2001 **Linux Journal**

Full text available: html(28.91 KB) Additional Information: full citation, index terms

10 Reprogrammable network packet processing on the field programmable port extender (FPX)

John W. Lockwood, Naji Naufel, Jon S. Turner, David E. Taylor
February 2001 **Proceedings of the 2001 ACM/SIGDA ninth international symposium on Field programmable gate arrays**
Full text available: pdf(257.98 KB) Additional Information: full citation, abstract, references, citings, index terms

A prototype platform has been developed that allows processing of packets at the edge of a multi-gigabit-per-second network switch. This system, the Field Programmable Port Extender (FPX), enables packet processing functions to be implemented as modular components in reprogrammable hardware. All logic on the on the FPX is implemented in two Field Programmable Gate Arrays (FPGAs). Packet processing functions in the system are implemented as dynamically-loadable modules.Core functi ...

Keywords: ATM, FPGA, IP, Internet, hardware, modularity, network, packet, processing, reconfiguration, routing

11 Modeling TCP behavior in a differentiated services network
Ikjun Yeom, A. L. Narasimha Reddy
February 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 1
Full text available: pdf(418.83 KB) Additional Information: full citation, references, index terms, review

Keywords: AF PHB, TCP modeling, differentiated service

12 Intelligent information dissemination services in hybrid satellite-wireless networks
Eddie C. Shek, Son K. Dao, Yongguang Zhang, Darrel J. Van Buer, Giovanni Giuffrida
December 2000 **Mobile Networks and Applications**, Volume 5 Issue 4
Full text available: pdf(527.68 KB) Additional Information: full citation, abstract, references, citings, index terms

The need for rapid deployment and user mobility suggest the use of a hybrid satellite‐wireless network infrastructure for important situation awareness and emergency response applications. An Intelligent Information Dissemination Service (IIDS) has been developed to support the dissemination and maintenance of extended situation awareness throughout such a network information infrastructure in a seamless manner. One of the goals of IIDS is to transparently handle the mismatches ...

13 Performance modeling of multihop network subject to uniform and nonuniform geometric traffic
Eric Noel, K. Wendy Tang
December 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 6
Full text available: pdf(336.60 KB) Additional Information: full citation, references

Keywords: deflection routing, multihop networks, performance modeling, store-and-forward routing

14 A window-based congestion control for reliable multicast based on TCP dynamics
Koichi Yano, Steven McCanne
October 2000 **Proceedings of the eighth ACM international conference on Multimedia**
Full text available: pdf(967.30 KB) Additional Information: full citation, abstract, references, index terms

The limitation of the current multicast model led to the development of embedded network assist and new service models for reliable transport. We show a viable solution for one of the hardest problems in reliable multicast — congestion control — through the deployment of a new forwarding service model, "*Breadcrumb forwarding service*" (BCFS). Our proposed reliable multicast transport, "*Rainbow*", is built on top of this model. In our approach, e ...

15 When the CRC and TCP checksum disagree
Jonathan Stone, Craig Partridge
August 2000 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for**

Computer Communication, Volume 30 Issue 4
Full text available: pdf(222.68 KB) Additional Information: full citation, abstract, references, citings, index terms

Traces of Internet packets from the past two years show that between 1 packet in 1,100 and 1 packet in 32,000 fails the TCP checksum, even on links where link-level CRCs should catch all but 1 in 4 billion errors. For certain situations, the rate of checksum failures can be even higher: in one hour-long test we observed a checksum failure of 1 packet in 400. We investigate why so many errors are observed, when link-level CRCs should catch nearly all of them.We have collected near ...

16 Soft timers: efficient microsecond software timer support for network processing
Mohit Aron, Peter Druschel
August 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 3
Full text available: pdf(272.44 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper proposes and evaluates soft timers, a new operating system facility that allows the efficient scheduling of software events at agranularity down to tens of microseconds. Soft timers can be used to avoid interrupts and reduce context switches associated with network processing, without sacrificing low communication delays. More specifically, soft timers enable transport protocols like TCP to efficiently perform rate-based clocking of packet transmissions. Experiments indicate that ...

Keywords: polling, timers, transmission scheduling

17 An application developer's perspective on reliable multicast for distributed interactive media
Martin Mauve, Volker Hilt
July 2000 **ACM SIGCOMM Computer Communication Review**, Volume 30 Issue 3
Full text available: pdf(1.06 MB) Additional Information: full citation, abstract, citings, index terms

In this paper we investigate which characteristics reliable multicast services should have in order to be appropriate for use by distributed interactive media applications such as shared whiteboards, networked computer games, or distributed virtual environments. We take a close look at the communication requirements of these applications and at existing approaches to realize reliable multicast. Based on this information we deduce which reliable multicast transport protocols are appropriate ...

Keywords: distributed interactive media, reliable multicast

18 JavaNws: the network weather service for the desktop
Chandra Krintz, Rich Wolski
June 2000 **Proceedings of the ACM 2000 conference on Java Grande**
Full text available: pdf(1.10 MB) Additional Information: full citation, references, index terms

19 Scalable reliable multicast using multiple multicast channels
Sneha Kumar Kasera, Gísli Hjálmtýsson, Donald F. Towsley, James F. Kurose
June 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 3
Full text available: pdf(318.40 KB) Additional Information: full citation, references, citings, index terms

Keywords: multicast channel, reliable multicast, retransmission scoping

20 Papers: The breadcrumb forwarding service: a synthesis of PGM and EXPRESS to improve and simplify global IP multicast
Koichi Yano, Steven McCanne
April 2000 **ACM SIGCOMM Computer Communication Review**, Volume 30 Issue 2
Full text available: pdf(1.02 MB) Additional Information: full citation, abstract, references, citings

If ubiquitously deployed, IP Multicast promises to provide an efficient datagram service for an

arbitrary sending host to reach an arbitrary and dynamic set of destination hosts anywhere in the Internet. Unfortunately, two very difficult problems ---interdomain multicast routing and viable end-to-end multicast transport--- have yet to be solved and deployed satisfactorily.This paper proposes that two existing but independent network mechanisms--- the EXPRESS service model and the network compone ...

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